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61 Communications of the ACM: Volume 51 issue 5

May 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.28 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 551, Downloads (12 Months): 1464, Citation Count: 0

62 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns

May 2005 Transactions on Storage (TOS) , Volume 1 Issue 2

Publisher: ACM

Full text available: Pdf (443.01 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 149, Citation Count: 14

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow ...

Keywords: Versioning file systems, copy-on-write

63 DRM, trusted computing and operating system architecture

Jason F. Reid, William J. Caelli

January 2005 ACSW Frontiers '05: Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 , Volume 44

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (191.31 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 174, Citation Count: 3

Robust technological enforcement of DRM licenses assumes that the prevention of direct access to the raw bit representation of decrypted digital content and the license enforcement mechanisms themselves is possible. This is difficult to achieve on an ...

64 On the performance of wide-area thin-client computing

Albert M. Lai, Jason Nieh

May 2006 Transactions on Computer Systems (TOCS) , Volume 24 Issue 2

Publisher: ACM

Full text available: Pdf (984.32 KB) Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 290, Citation Count: 0

While many application service providers have proposed using thin-client computing to deliver computational services over the Internet, little work has been done to evaluate the effectiveness of thin-client computing in a wide-area network. To assess ...

Keywords: Internet2, Thin-client, slow-motion benchmarking, wide-area networks

65 The *Conquest* file system: Better performance through a disk/persistent-RAM hybrid design

An-I Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek

August 2006 Transactions on Storage (TOS) , Volume 2 Issue 3

Publisher: ACM

Full text available: Pdf (1.34 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 231, Citation Count: 0

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence ...

Keywords: Persistent RAM, file systems, performance measurement, storage management

66 Perceptual photometric seamlessness in projection-based tiled displays

Aditi Majumder, Rick Stevens

January 2005 Transactions on Graphics (TOG) , Volume 24 Issue 1

Publisher: ACM

Full text available: Pdf (326.11 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 83, Citation Count: 4

Arguably, the most vexing problem remaining for multi-projector displays is that of photometric (brightness) seamlessness within and across different projectors. Researchers have strived for strict photometric uniformity that achieves ...

Keywords: Projection-based displays, color calibration, tiled displays

67 Communications of the ACM: Volume 51 Issue 1

January 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 665, Downloads (12 Months): 4496, Citation Count: 0

68 A distributed graphics system for large tiled displays

Greg Humphreys, Pat Hanrahan

October 1999 VIS '99: Proceedings of the conference on Visualization '99: celebrating ten years

Publisher: IEEE Computer Society Press

Full text available: Pdf (2.14 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 80, Citation Count: 32

Recent interest in large displays has led to renewed development of tiled displays, which are comprised of several individual displays arranged in an array and used as one large logical display. Stanford's "Interactive Mural" is an example ...

69 Algorithms and data structures for flash memories

Eran Gal, Sivan Toledo

June 2005 Computing Surveys (CSUR) , Volume 37 Issue 2

Publisher: ACM

Full text available: Pdf (343.39 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 104, Downloads (12 Months): 878, Citation Count: 14

Flash memory is a type of electrically-erasable programmable read-only memory (EEPROM). Because flash memories are nonvolatile and relatively dense, they are now used to store files and other persistent objects in handheld computers, mobile phones, digital ...

Keywords: EEPROM memory, Flash memory, wear leveling

70 Perspective cursor: perspective-based interaction for multi-display environments

Miguel A. Nacenta, Samer Sallam, Bernard Champoux, Sriram Subramanian, Carl Gutwin

April 2006 CHI '06: Proceedings of the SIGCHI conference on Human Factors in computing systems

Publisher: ACM

Full text available: Pdf (1.21 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 184, Citation Count: 5

Multi-display environments and smart meeting rooms are now becoming more common. These environments build a shared display space from variety of devices: tablets, projected surfaces, tabletops, and traditional monitors. Since the different display surfaces ...

Keywords: direct-manipulation interfaces, laser pointing, multi-display interaction techniques, multi-monitor environments

71 Overshadow: a virtualization-based approach to retrofitting protection in commodity operating systems

Xiaoxin Chen, Tal Garfinkel, E. Christopher Lewis, Pratap Subrahmanyam, Carl A. Waldspurger, Dan Boneh, Jeffrey Dwoskin, Dan R.K. Ports

March 2008 ASPLOS XIII: Proceedings of the 13th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: Pdf (272.32 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 415, Citation Count: 1

Commodity operating systems entrusted with securing sensitive data are remarkably large and complex, and consequently, frequently prone to compromise. To address this limitation, we introduce a virtual-machine-based system called Overshadow that protects ...

Keywords: VMM, cloaking, hypervisors, memory protection, multi-shadowing, operating systems, virtual machine monitors

72 An integrated approach to engineer and enforce context constraints in RBAC environments

Mark Strembeck, Gustaf Neumann

August 2004 Transactions on Information and System Security (TISSEC) , Volume 7 Issue 3

Publisher: ACM

Full text available: pdf (3.06 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 166, Citation Count: 4

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks ...

Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

73 Secure file system versioning at the block level

Jake Wires, Michael J. Feeley

June 2007 EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems 2007

Publisher: ACM

Full text available: pdf (406.68 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 171, Citation Count: 2

In typical file systems, valuable data is vulnerable to being accidentally or maliciously deleted or overwritten. Versioning file systems protect data from accidents by transparently retaining old versions, but do less well in protecting data from malicious ...

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

74 Practical safety in flexible access control models

Trent Jaeger, Jonathon E. Tidswell

May 2001 Transactions on Information and System Security (TISSEC) , Volume 4 Issue 2

Publisher: ACM

Full text available: pdf (346.47 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 135, Citation Count: 27

Assurance that an access control configuration will not result in the leakage of a right to an unauthorized principal, called *safety*, is fundamental to ensuring that the most basic of access control policies can be enforced. It has been proven ...

Keywords: Access control models, authorization mechanisms, role-based access control

75 Specification and dialogue control of visual interaction through visual rewriting systems

P. Bottoni, M. F. Costabile, P. Mussio

November 1999 — Transactions on Programming Languages and Systems (TOPLAS) , Volume 21 Issue 6

Publisher: ACM

Full text available: Pdf (886.71 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 62, Citation Count: 8

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between ...

Keywords: control automaton, dialogue control, visual languages

76 Temporal sequence learning and data reduction for anomaly detection

Terran Lane, Carla E. Brodley

August 1999 — Transactions on Information and System Security (TISSEC) , Volume 2 Issue 3

Publisher: ACM

Full text available: Pdf (628.31 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 325, Citation Count: 29

The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

77 A design framework for real-time embedded systems with code size and energy constraints

Sheayun Lee, Insik Shin, Woonseok Kim, Insup Lee, Sang Lyul Min

February 2008 — Transactions on Embedded Computing Systems (TECS) , Volume 7 Issue 2

Publisher: ACM

Full text available: Pdf (380.28 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 280, Citation Count: 0

Real-time embedded systems are typically constrained in terms of three system performance criteria: space, time, and energy. The performance requirements are directly translated into constraints imposed on the system's resources, such as code size, execution ...

Keywords: Embedded, code size, energy, real-time, scheduling

78 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell

December 2003 Personal and Ubiquitous Computing , Volume 7 Issue 6

Publisher: Springer-Verlag

Full text available: Pdf (383.26 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 104, Citation Count: 6

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

79 A composite rbac approach for large, complex organizations

Joon S. Park, Keith P. Costello, Teresa M. Neven, Josh A. Diosomito

June 2004 SACMAT '04: Proceedings of the ninth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: Pdf (433.81 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 171, Citation Count: 4

Secure and effective access control is critical to sensitive organizations, especially when multiple organizations are working together using diverse systems. To alleviate the confusion and challenges of redundancy in such a large, complex organization, ...

Keywords: role mappings, role structures, role-based access control

80 The automatic improvement of locality in storage systems

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

November 2005 Transactions on Computer Systems (TOCS) , Volume 23 Issue 4

Publisher: ACM

Full text available: Pdf (2.58 MB) Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 402, Citation Count: 2

Disk I/O is increasingly the performance bottleneck in computer systems despite rapidly increasing disk data transfer rates. In this article, we propose Automatic Locality-Improving Storage (ALIS), an introspective storage system that automatically reorganizes ...

Keywords: Data layout optimization, block layout, data reorganization, data restructuring, defragmentation, disk technology trends, locality improvement, prefetching

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